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PATENT APPLN. NO. 10/743,746  
RESPONSE UNDER 37 C.F.R. §1.111

PATENT  
NON-FINAL

IN THE CLAIMS:

1. (canceled)

2. (withdrawn) A method for producing an electrolyte for a nonaqueous battery comprising the step of reacting magnesium carbonate or magnesium hydroxide with an imide compound to produce the electrolyte for a nonaqueous battery.

3. (withdrawn) A method for producing an electrolyte for a nonaqueous battery comprising the step of reacting magnesium carbonate or magnesium hydroxide with trifluoromethanesulfonimide to produce magnesium bistrifluoromethanesulfonimide.

4. (currently amended) An electrolytic solution for a nonaqueous battery comprising:

magnesium bistrifluoromethanesulfonimide; and

~~an organic solvent and/or a room temperature molten salt having a melting point of 60°C or less in which the magnesium bistrifluoromethanesulfonimide is dissolved~~ being at least one kind selected from the group consisting of ethylene carbonate, propylene carbonate, butylene carbonate, trifluoropropylene carbonate, fluoroethylene carbonate, dimethyl carbonate, diethyl carbonate,

methyl ethyl carbonate, sulfolane, tetrahydrofuran, crown ether,  
dimethoxyethane, ethoxymethoxy ethane, diethoxyethane,  $\gamma$ -  
butyrolactone, valerolactone, angelica lactone, methyl formate,  
methyl acetate and methyl propionate;

wherein the magnesium bistrifluoromethanesulfonimide is  
dissolved in said organic solvent.

5 - 6. (canceled)

7. (currently amended) ~~The electrolytic solution for a~~  
~~nonaqueous battery according to claim 4, An electrolytic solution~~  
for a nonaqueous battery comprising:

magnesium bistrifluoromethanesulfonimide; and

a room temperature molten salt having a melting point of 60°C  
or less in which said magnesium bistrifluoromethanesulfonimide is  
dissolved;

wherein an ammonium salt is used as the room temperature  
molten salt.

8. (original) The electrolytic solution for a nonaqueous  
battery according to claim 7, wherein the ammonium salt is  
trimethylpropyl ammonium-bis-(trifluoromethylsulfonyl) imide.

9. (currently amended) A nonaqueous battery comprising:  
a positive electrode;  
a negative electrode; and  
~~an electrolytic solution including magnesium~~  
~~bistrifluoromethanesulfonimide, and an organic solvent and/or an~~  
~~ordinary temperature molten salt having a melting point of 60°C or~~  
~~less in which the magnesium bistrifluoromethanesulfonimide is~~  
dissolved the electrolytic solution according to claim 4.

10. (original) The nonaqueous battery according to claim 9,  
wherein the nonaqueous battery is a magnesium ion battery.

11. (currently amended) A nonaqueous electrolyte battery  
comprising:

a nonaqueous electrolyte including ~~an ether based solvent~~  
dimethoxyethane (DME) and a magnesium salt;

a positive electrode including magnesium as an active  
material; and

a negative electrode including magnesium as an active  
material.

12 - 13. (canceled)

14. (currently amended) The nonaqueous electrolyte battery according to claim 11, wherein the magnesium salt includes at least one of an imide salt ~~and a sulfonate~~ or a sulfonate.

15. (original) The nonaqueous electrolyte battery according to claim 14, wherein the imide salt is an alkylsulfonylimide salt.

16. (original) The nonaqueous electrolyte battery according to claim 15, wherein the alkylsulfonylimide salt is magnesium bistrifluoromethanesulfonimide.

17. (withdrawn) The nonaqueous electrolyte battery according to claim 14, wherein the sulfonate is an alkylsulfonate salt.

18. (withdrawn) The nonaqueous electrolyte battery according to claim 17, wherein the alkylsulfonate salt is magnesium trifluoromethanesulfonate  $[Mg (CF_3SO_3)_2]$ .

19. (currently amended) The nonaqueous electrolyte battery according to claim 11, wherein the positive electrode or the negative electrode includes at least one selected from the group consisting of of a magnesium metal, a magnesium alloy, a magnesium

oxide, silicon, carbon, fluorocarbon and a transition metal sulfide.

20. (new) A nonaqueous battery comprising:  
a positive electrode;  
a negative electrode; and  
the electrolytic solution according to claim 7.

21. (new) A nonaqueous battery comprising:  
a positive electrode;  
a negative electrode; and  
the electrolytic solution according to claim 8.